

10037344.010402

MOPC-41 κ CHAIN GENE

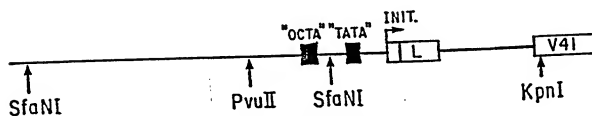


FIG.1A

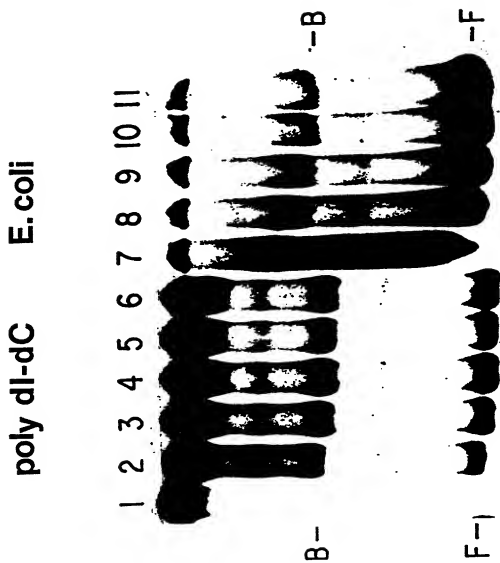


FIG.1B

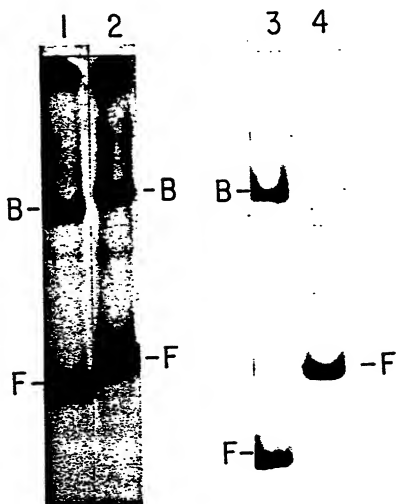


FIG. 1C

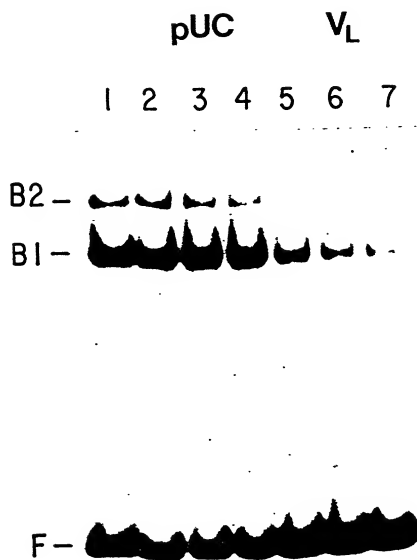


FIG.2A

FIG.2B

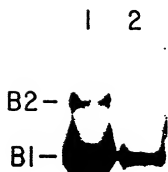
*HeLa*

FIG.3



V_L coding strand (-66)	[*] TCTTAATA	ATTTCAT	ACCCTCAC [*]
V_H non-coding strand (-50)	CGCACATG	ATTTCAT	ACTCATGA
$J_H - C\mu$ coding strand (166)	CCTGGGTA	ATTTCAT	TTCTAAAA

FIG.4A

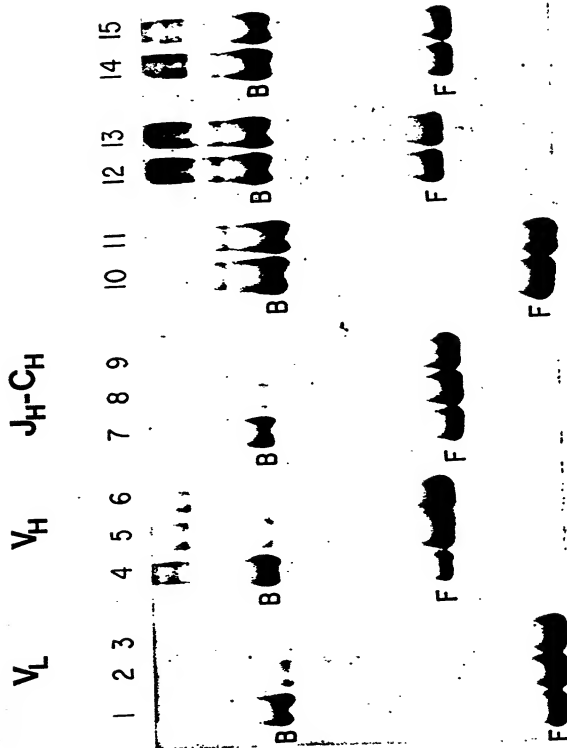


FIG.4B

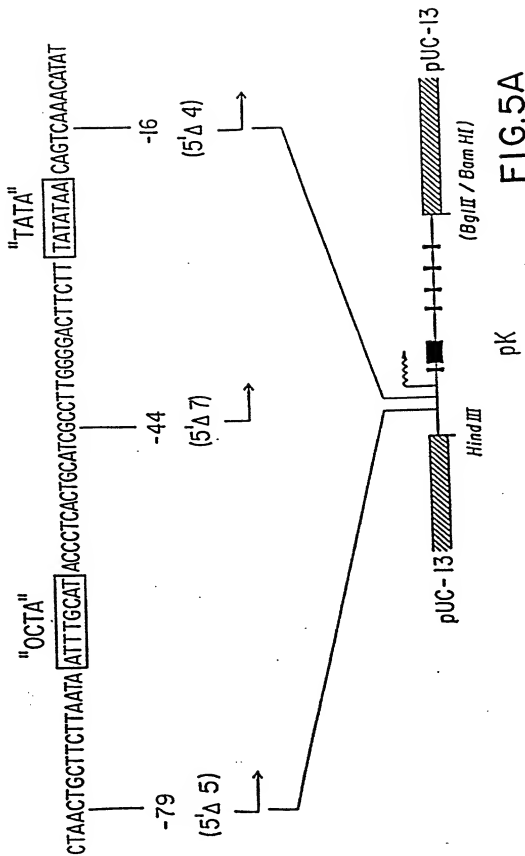


FIG. 5A

FIG.5B

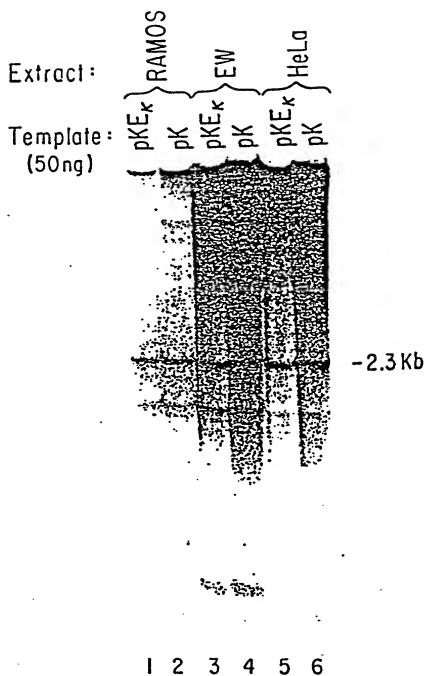
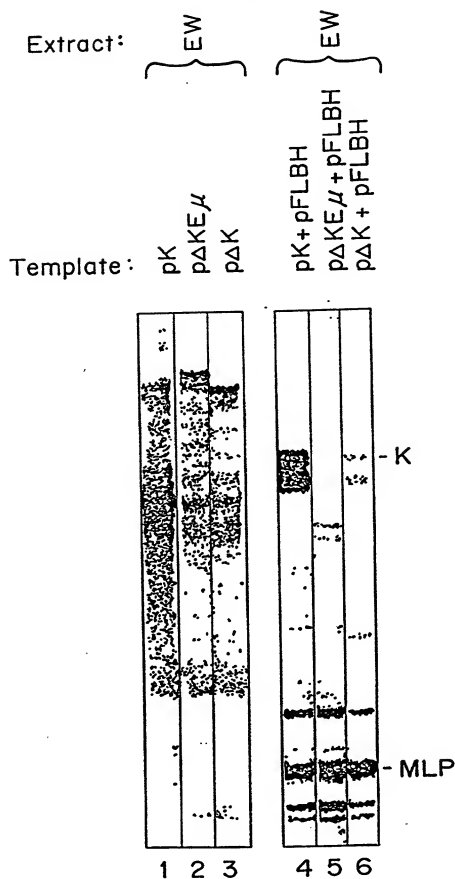
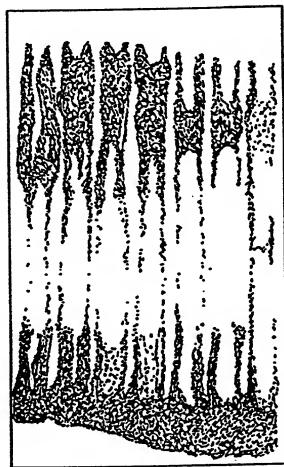


FIG.6



IgNF-A →
IgNF-B →



WEHI 231
AJ9
EW
PD
38B9
70Z
SPZ/O

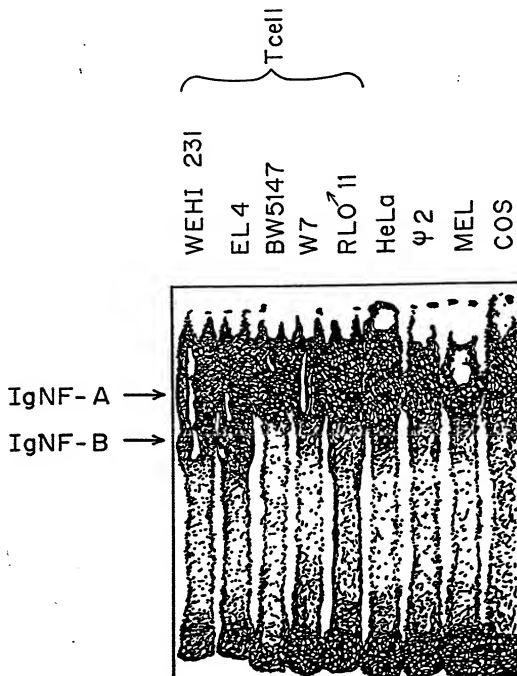
B cell

pre B cell

myeloma

FIG.7

FIG.8



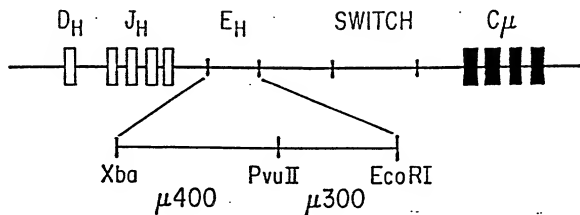


FIG.9A

Probe: $\mu 300$
 Extract: EW/N
 Competitor:

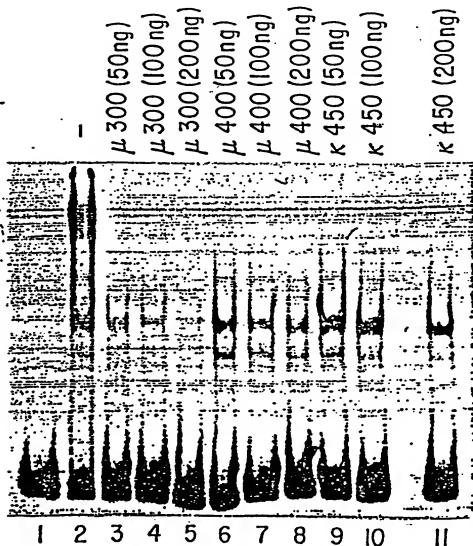
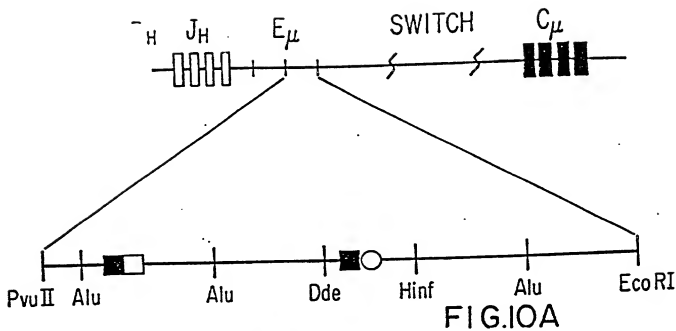


FIG.9B



- : E
- : ?
- : Octamer (ATTGTCAT)

FIG. 10B

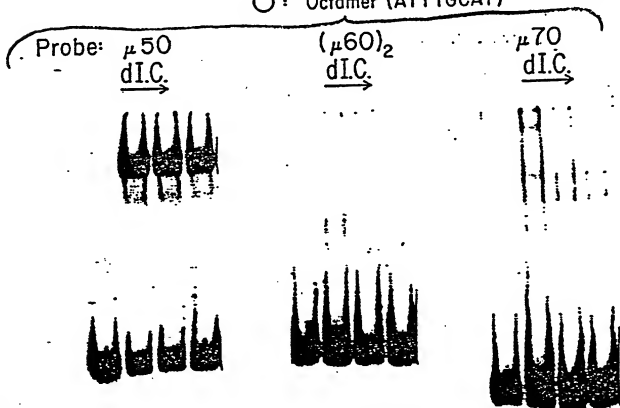
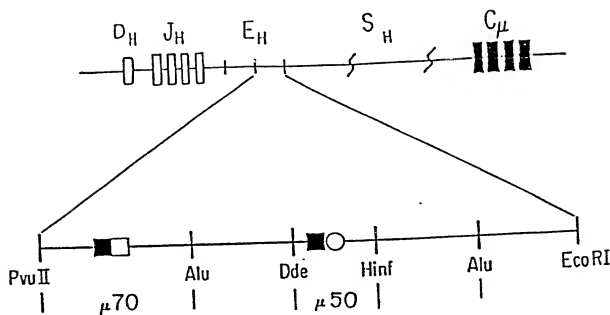


FIG.10C



LABEL: $\mu 70$
COMPETITOR:

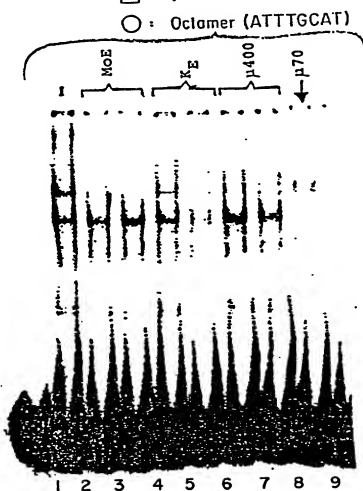
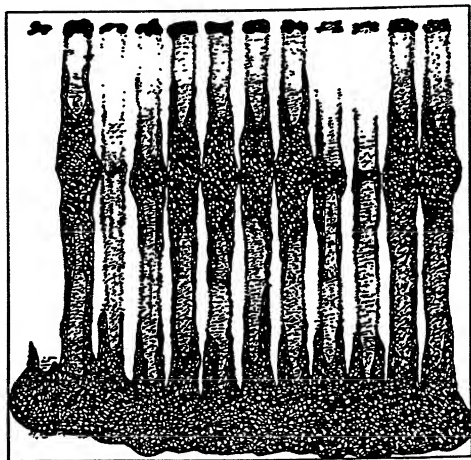


FIG.10D

FIG.10E

Probe: $\mu 70$
Extract: EW (C)
Competitor

-	
-	
$\mu 300$ (50 ng)	
$\mu 400$ (50 ng)	
$\mu 50$ (10 ng)	
$\mu 50$ (30 ng)	
$\mu 60$ (10 ng)	
$\mu 60$ (30 ng)	
$\mu 70$ (10 ng)	
$\mu 70$ (30 ng)	
$\mu 170$ (20 ng)	
$\mu 170$ (60 ng)	

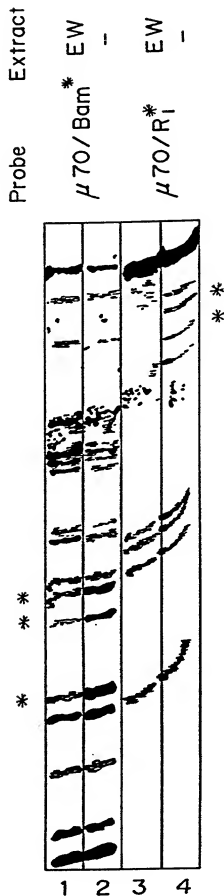


1 2 3 4 5 6 7 8 9 10 11 12

FIG.IIA



FIG.IIB



$\mu 50$:

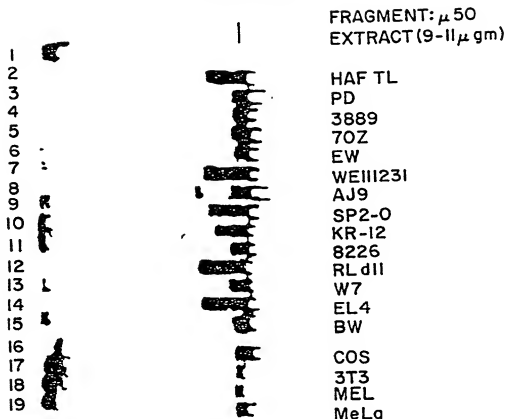
AATTACCCAGGTGGTGGTTTTC
 TTAATGGGTCCACCAACAACG

 $\mu 70$:

AGCAGTCA TGGCAAGGCTA
 TCGTCCA TACACC TCCGAT

FIG. 11C

FIG.12A



FRAGMENT: μ 70
EXTRACT (9-11 μ g)

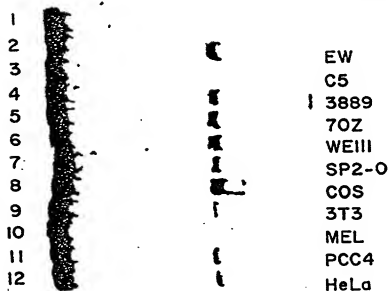


FIG.12B

FIG.13A

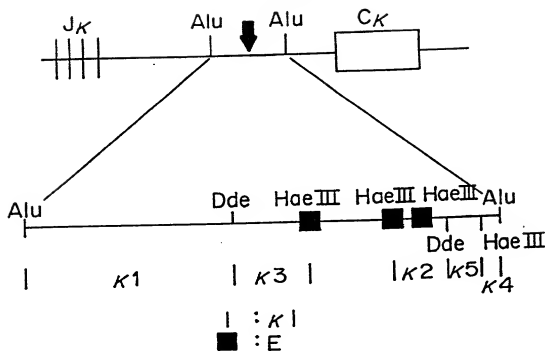


FIG.13B

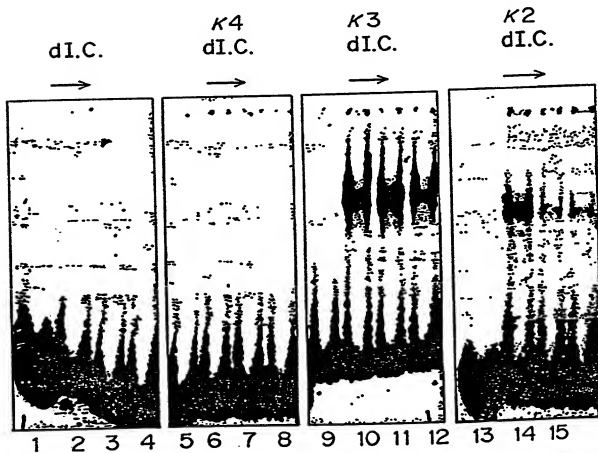


FIG.13C

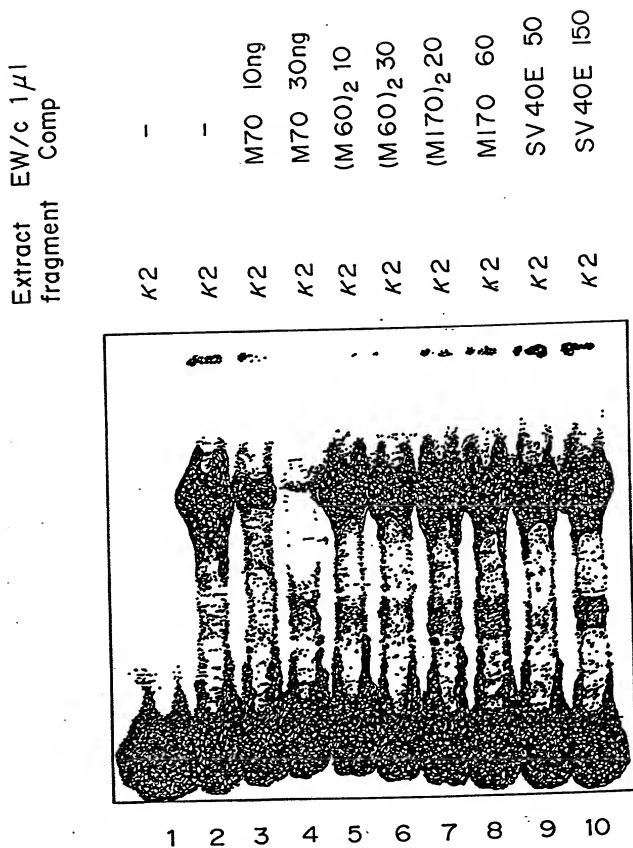


FIG.13D

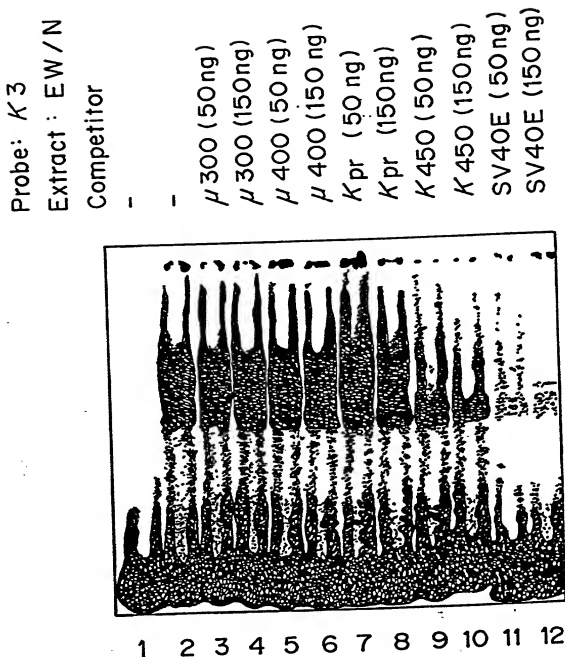


FIG.14

Probe: κ -3/Dde*

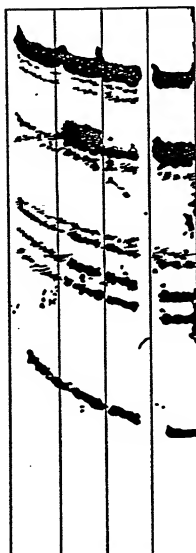
Extract

MPC II

-

WEHI 231

-



1 2 3 4

FIG.15A

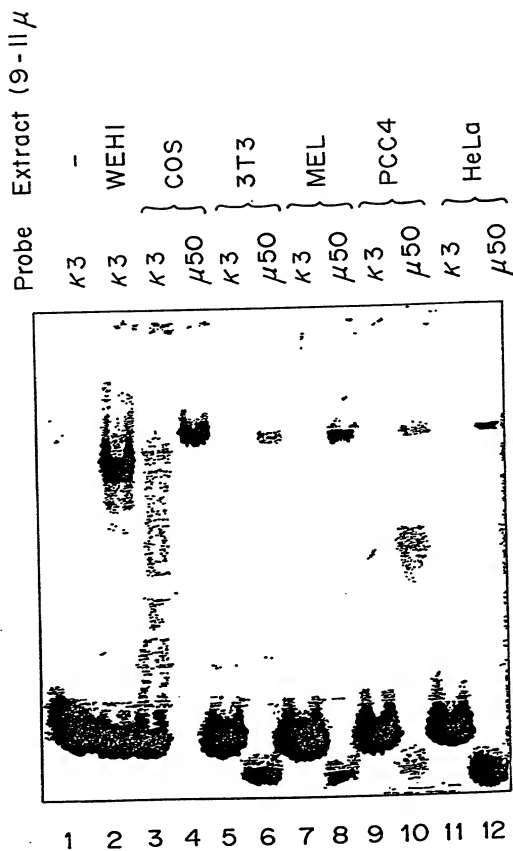


FIG. 15B

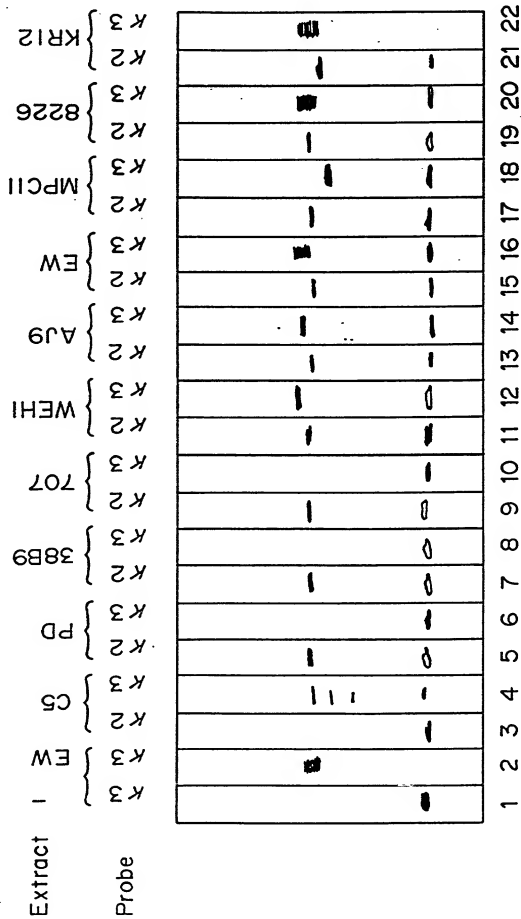


FIG.16

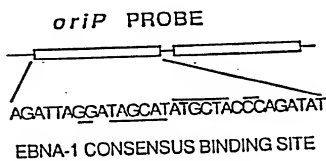
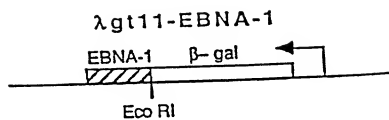


FIG.17

A.

<i>MHC</i>	<u>TGGGGATTCCCCA</u>
<i>mhc1</i>	TGcGGATTCCCaA
κ EN	aGGGGAcTttCCg
κ en	aaatt _a AcTttCCg
<i>SVEN</i>	TGGGGAcTttCCA
<i>HIV</i>	TGGGGAcTttCCA
	aaGGGAcTttCCg

CTGGGGCCCCAGAGAGGGTGGGGAGATGACACAGTTGTTCCCCAGCCCTGGCGGGGCG
 1
 GGCAGCATGGTTCCTCCAGCATGGGGGCTCCAGAAATAAGAATGTCTAAGCCCTGGAG
 61
 M V H S S M G A P E I R M S K P L E
 GCCGAGAAGCAAGGTCTGGAGTCCCCATCAGAGCACACAGACACCAGAAAGAAATGGACCA
 121
 A E K Q G L D S P S E M T D T E R N G P
 GACACTAATCATCAGAACCCCCAAAATAAGACCTCCCCATTCTCCGTGTCCCCAACTGGC
 181
 D T N H O N P Q N R T S P F S V S P T G
 CCCAGTACAAGATCAAGGCTGAAGACCCAGTGGCGATTACAGCCCCAGCAGCACCCTG
 241
 P S T K I K A E D P S G D S A P A A P L
 CCCCCTCAGCCGGCCAGCCTCATCTGCCCCAGGCCCACTCATGTTGACGGGCAGCCAG
 301
 P P Q P A Q P N L P Q A Q L M L T G S Q
 CTAGCTGGGGACATACAGCAGCTCCTCCAGCTCCAGCAGCTGGTGCTTGTGCGAGGCCAC
 361
 L A G D I Q Q L L Q L Q Q L V L V P G H
 CACCTCCAGCCACCTGCTCAGTCTCTGCTACCGCAGGCCAGCAGAGCCAGCCAGGCCTG
 421
 H L Q P P A Q F L L P Q A Q Q S Q P G L
 CTACCGACACCAATCTATTCCAGCTACCTCAGCAAACCCAGGGAGCTCTTCTGACCTCC
 481
 L P T P H L F Q L P Q Q T Q G A L L T S
 CAGCCCCGGGCGGGCTTCCCACACAGGCGGTGACCCGCCCTACGCTGCCGACCCGCAC
 541
 Q P R A G L P T Q A V T R P T L P D P H
 CTCTCGCACCCGAGCCCCCAATGCTTGGAGCCACCATCCACCCCCGAGGAGCCCACT
 601
 L S H P Q P P K C L E P P S H P E E P S
 GATCTGGAGGAGCTGGAGCAATTGGCCCGCACCTTCAAGCAACGCCGCATCAAGTGGGC
 661
 D L E E L E Q F A R T F K Q R R I K L G
 TTCACGCAGGGTGATGTGGGCCTGGCCATGGGCAAGCTCTACGCCAACGACTTCAGCCAG
 721
 F T Q G D V G L A M G K L Y G N D F S Q
 C G P G H G Q A L R Q R L Q P D

FIG. 18A

GTTACTACCTTATCCTCAGCTGTGGGGACGCTCCACCCAGCCGGACAGCTGGAGGGGGT
 1261 -----+-----+-----+-----+-----+-----+-----+-----+-----+
 V T T [L] S S A V G T [L] H P S R T A G G G
 Y Y L I L S C G D A P P Q P D S N M G W
 GGGGGCGGGGGCGGGGCTGCGCCCCCTCAATTCCATCCCTCTGTCACTCCCCCACCC
 1321 -----+-----+-----+-----+-----+-----+-----+-----+-----+
 G G G G G A A P P L N S I P S V T P P P
 G M G R G C A P P Q F H P L C H S P T P
 CCGGCCACCACCAACAGCACAAACCCAGCCCTCAAGGCAGCCACTCGGCTATCGGCTTG
 1381 -----+-----+-----+-----+-----+-----+-----+-----+-----+
 P A T T N S T N P S P Q G S H S A I G L
 G H N Q Q H K P Q P S R Q P L G Y M L V
 TCAGGCCTGAACCCAGCACGGGGTAAGTGGGTGCACGTGGGAAGCTGTGGGGAGAAGCA
 1441 -----+-----+-----+-----+-----+-----+-----+-----+-----+
 S G L H P S T G +
 A P E P Q N G V S G C T W E A V G R S R
 GCGTCGCTGCTCTTCTAGGGTGGGGAGCGGCACCCAGTTATGTTGGCAGGTCCCTGCC
 1501 -----+-----+-----+-----+-----+-----+-----+-----+-----+
 V A A A S R V G S G T P V M L A G P C P
 CCTGCTAATGCCTCTGCTTTGCCTCTTGCGAGAAGCACAATGGTGGGGTTGAGCTCCGGCT
 1561 -----+-----+-----+-----+-----+-----+-----+-----+-----+
 C +
 GAGTCCAGCCCTCATGAGCAACAACCCTTTGGCCACTATCCAAGGTGCGTGCTGCCTCAT
 1621 -----+-----+-----+-----+-----+-----+-----+-----+-----+
 GTCACACCCATCGTCACCAGCCCCGAATTCGAG
 1681 -----+-----+-----+-----+-----+-----+-----+-----+-----+

FIG.18A (CONT.)

781 ACGACCATTTCCTCGCTTCGAGGCGCTCAACCTGAGCTTCAAGAACATGTGCAAACTCAAG
 T T I S R F E A L N L S F K N M C K L K
 D H F P L R G P Q P E L Q E H V Q T Q A

841 CCCCTCCTGGAGAAGTGGCTCAACGATGCAGAGACTATGTCTGTGGACTCAAGCCTGCC
 P L L E K W L N D A E T M S V D S S L P
 P P G E V A Q R C R D Y V C G L K P A Q

901 AGCCCCAACCAGCTGAGCAGCCCCAGCCTGGGTTTCGAGCCTGCCGGCCGGAGACGCAAG
 S P N O L S S P S L G F E P A G R R R K
 P Q P A E Q P Q P G F R A C M P E T Q E

961 AAGAGGACCAGCATCGAGACAAACGTCCGCTTCGCCTTAGAGAAGAGTTTTCTAGCGAAC
 K R T S I E T N V R F A L E K S F L A N
 E D Q M R D K R P L R L R E E F S S E P

1021 CAGAAGCCTACCTCAGAGGAGATCCTGCCTGATCGCCGAGCAGCTGCACATGGAGAAGGAA
 Q K P T S E E I L L I A E Q L H M E K E
 E A Y L R G D P A D R R A A A H G E G S

1081 GTGATCCGCGTCTGGTTCTGCAACCGGCCCCAGAAGGACAAACGCATCAACCCCTGCAGT
 V I R V W F C N R R Q K E K R I H P C S
 D P R L V L Q P A P E G E T H Q P L Q C

1141 CGGCCCCCATGCTGCCAGCCAGGGAAGCCGGCCAGCTACAGCCCCCATATGGTCACA
 A A P M L P S P G K P A S Y S P H H V T
 G P H A A Q P R E A G Q L Q P P Y G H T

1201 CCCCAGGCGGCGCGGGGACCTTACCGTTGTCCCAAGCTTCCAGCAGTCTGAGCACAACA
 P Q G G A G T L P [L] S Q A S S S [L] S T T
 P A G R G D L T V V P S F Q Q S E H N S

FIG.18A (CONT.)

CCTCAAGGCAGCCACTCGGCTATCGGCTTGTCAGGCCTGAACCCAGCACGGGCCCTGGC
 1411 -----
 P Q G S H S A I G L S G L N P S T G P G
 S A Q P L G Y R L V M P E P Q M G P N P
 CTCTGGTGGAAACCCTGCCCTTACCAGCCTTGATGGCAGCGGGAATCTGGTGTGGGGG
 1471 -----
 L W W N P A P Y Q P .
 L V E P C P L P A L M A A G I W C W G Q
 AGCCGGTGCAGCCCCGGGGAGCCCTGGCCTGGTGACCTCGCCGCTCTTCTTGAATCATGC
 1531 -----
 P V Q P R G A L A W .
 TGGGCTGCCCCTGCTCAGCACCCCGCCTGGTGTGGGCCTGGTCTCAGCAGCGGCTGCGGG
 1591 -----
 TGTGGCAGCCTCCATCTCCAGCAAGTCTCCTGGCCTCTCCTCCTCATCCTTTCATCCTC
 1651 -----
 ATCCTCCTCCTCCTCCACTTGCAGCGAGACGGCAGCACAGACCCTGGAGGTCCAGGGGGG
 1711 -----
 CCCGAGGCAGGGTCCAAACCTGAGTGAGGGCCAGCCATGCCTCCCCTCCCATTCCTCTGG
 1771 -----
 TCCCTGCCCCGGAATTC
 1831 -----

FIG.18B

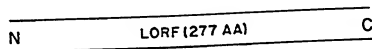
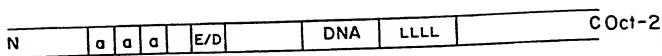


FIG.18C

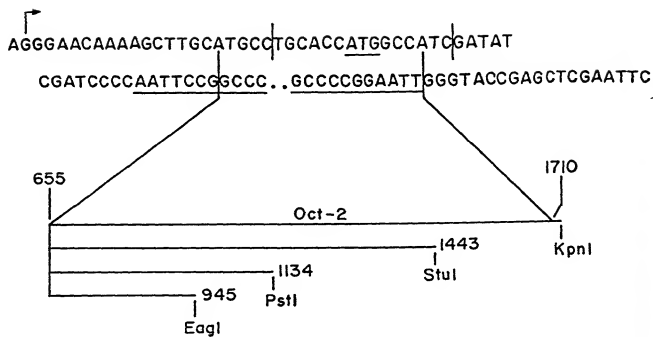


FIG.19

FIGURE 21A

70Z 70Z LPS (20h) WEHI 231

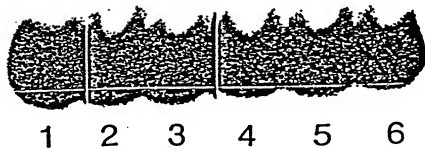
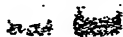


FIGURE 21B

WEHI 231
PD

PDILPS
(20h)



1 2 3 4 5 6

FIGURE 22A

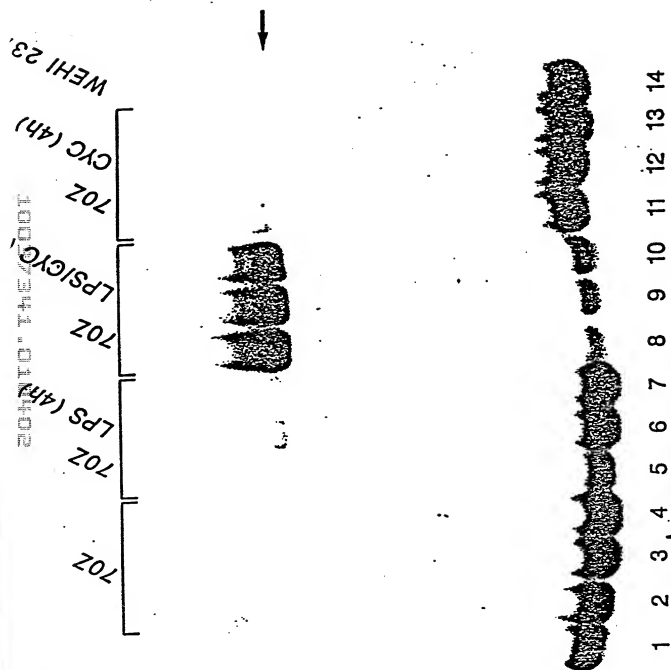


FIGURE 22B

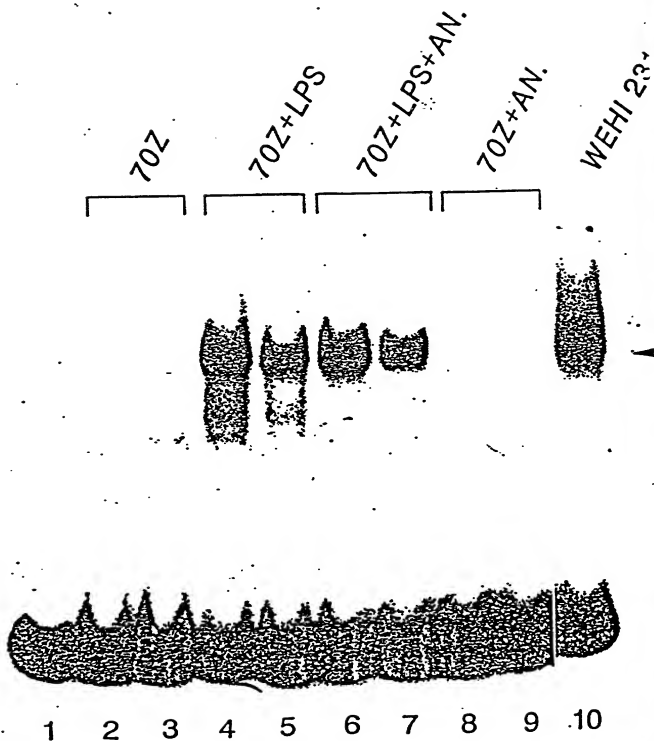


FIGURE 23A

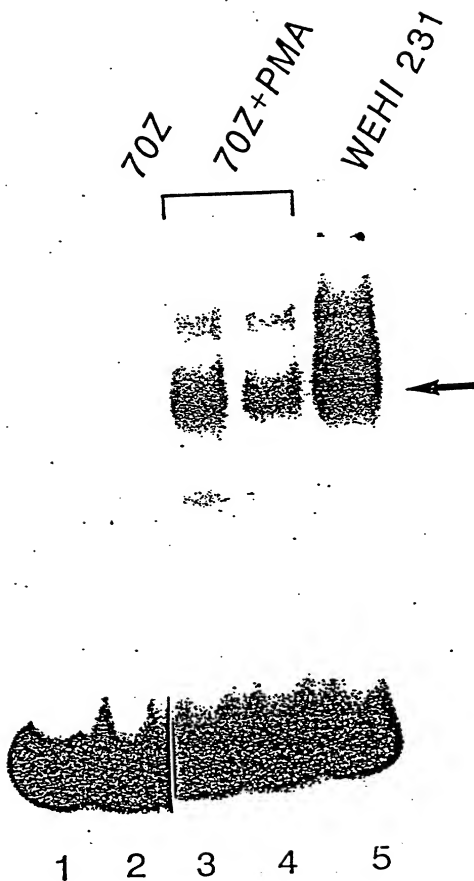
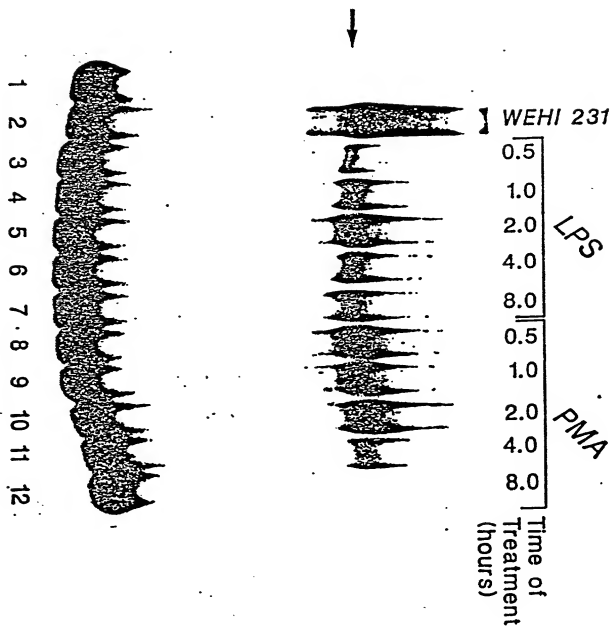


FIGURE 23B



10037341.010402

FIGURE 24A

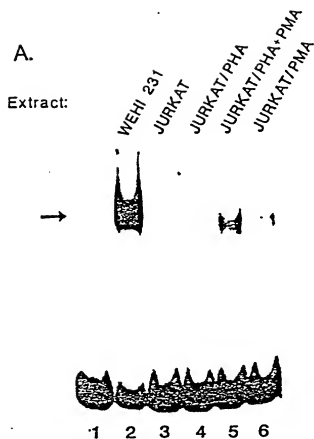


FIGURE 24B

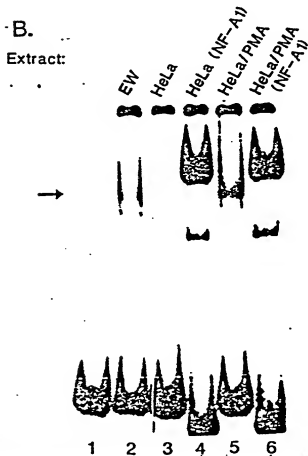


FIGURE 24C

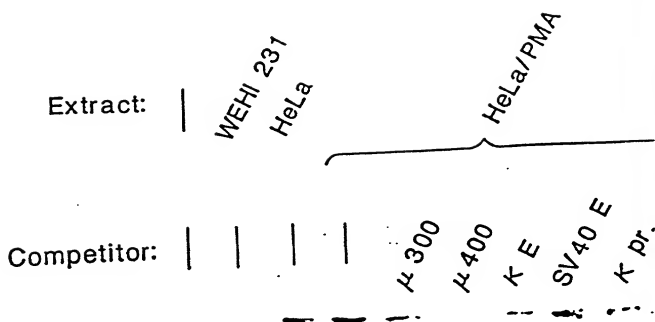
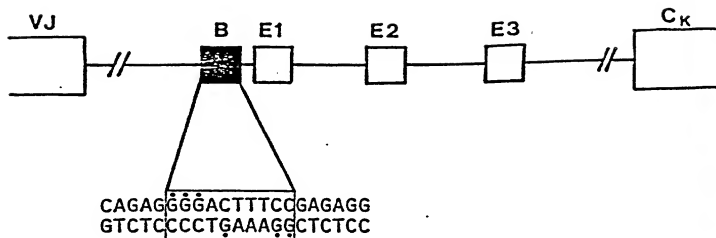
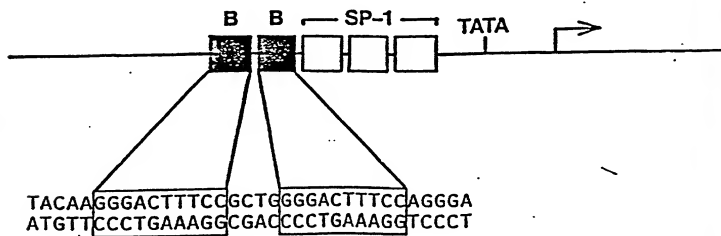


FIGURE 25

κ-Enhancer



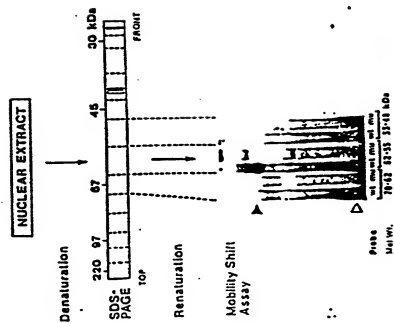
HIV LTR



10037341.010402

FIGURE 26

A



B

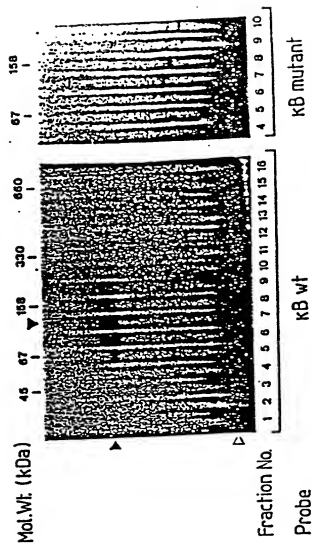


FIGURE 27

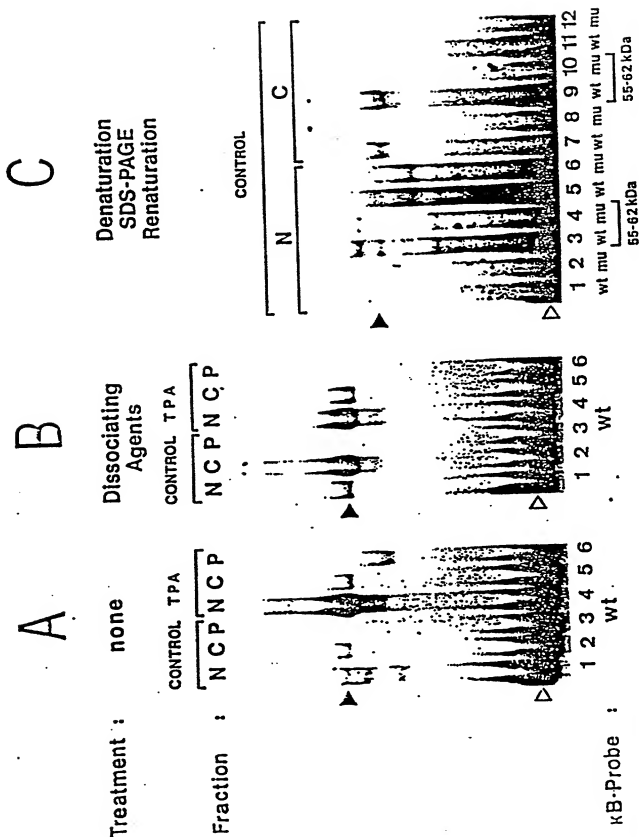
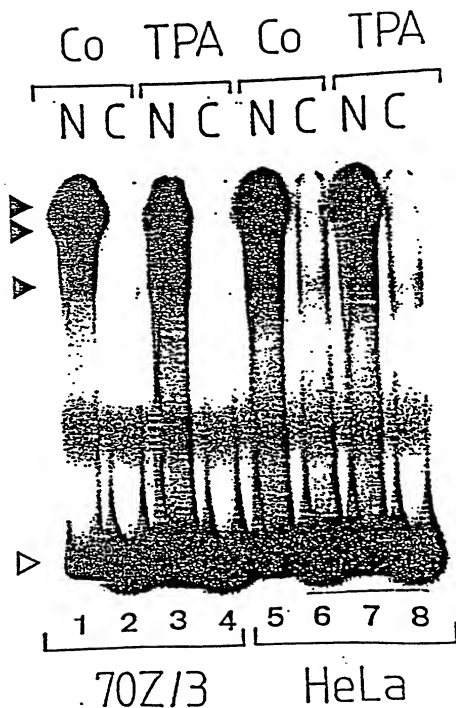


FIGURE 28



10037341.010402

FIGURE 29

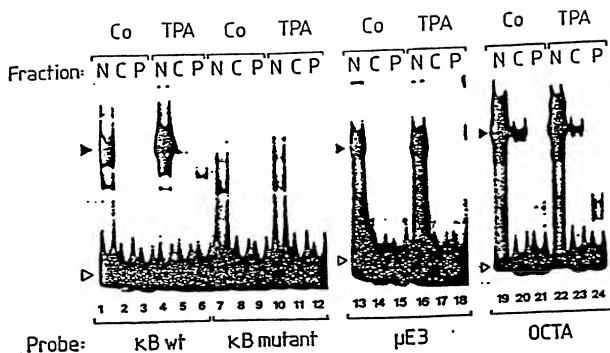


FIGURE 30

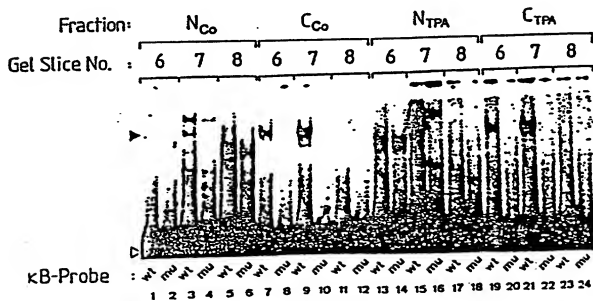


FIGURE 31

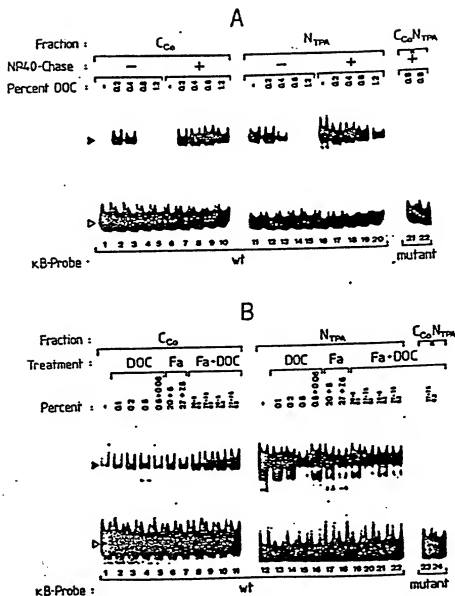


FIGURE 32

70Z/3

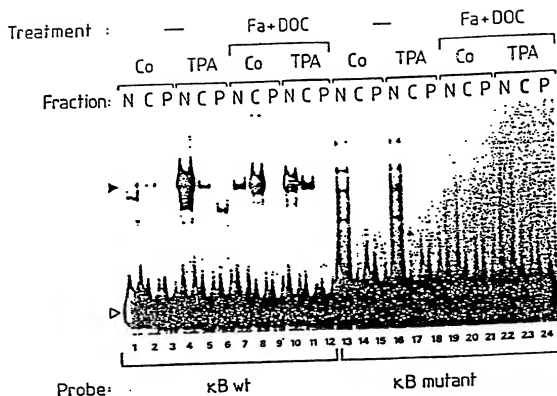


FIGURE 33

HeLa

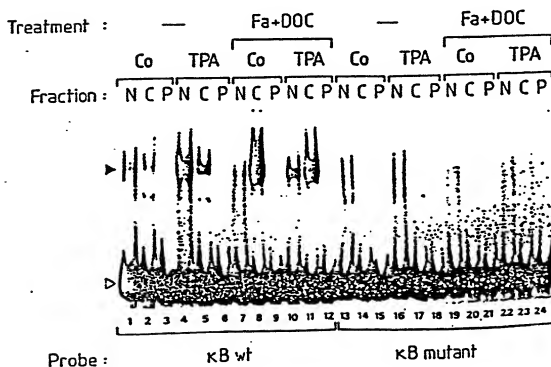


FIGURE 34

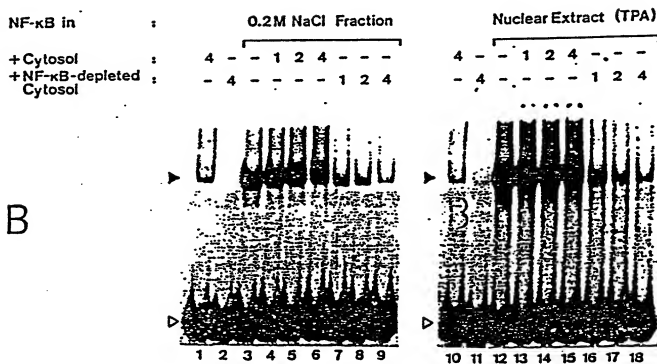
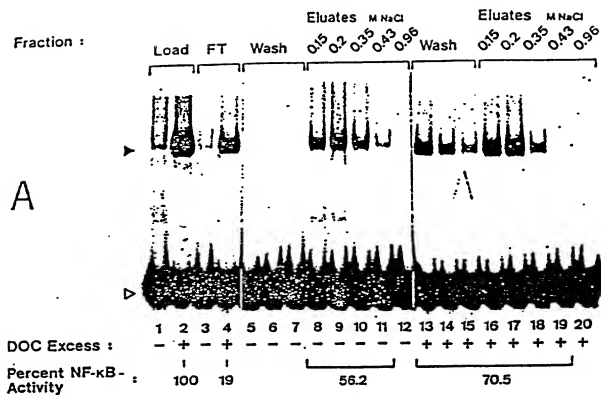
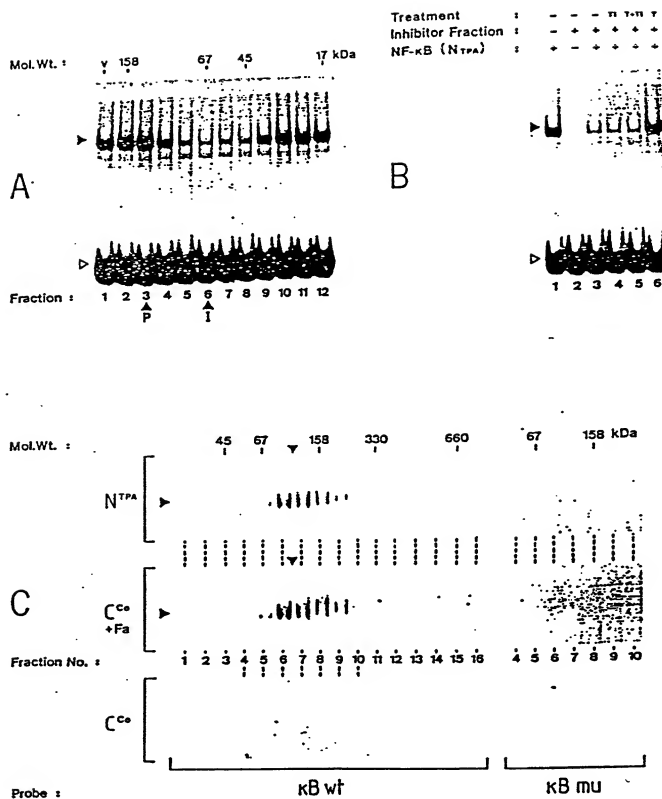


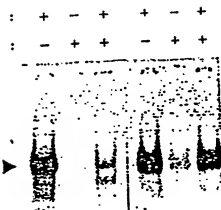
FIGURE 35



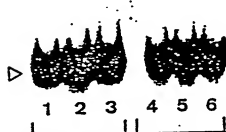
10037341.010402

FIGURE 36

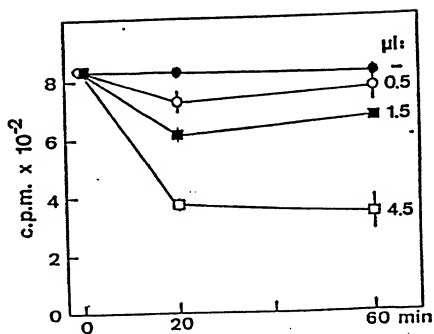
NF- κ B (N_{TPA})
Inhibitor Fraction



A

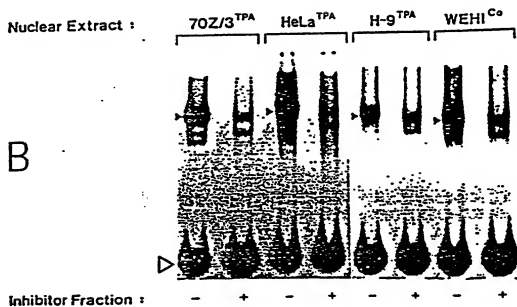
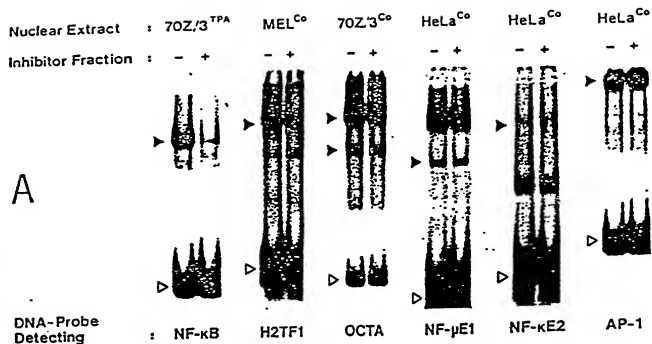


DOC Treatment



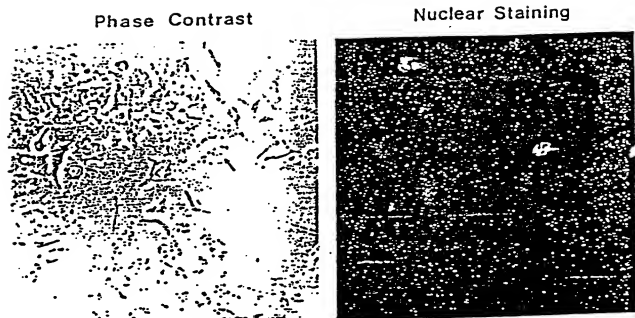
B

FIGURE 37

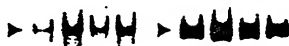


10037341.010402

FIGURE 38



Enucleation : - + - + - +
Treatment of Cells : Co TPA Co TPA Co TPA Co TPA



Probe : 1 2 3 4 5 6 7 8 9 10 11 12
DOC-Treatment : - + -



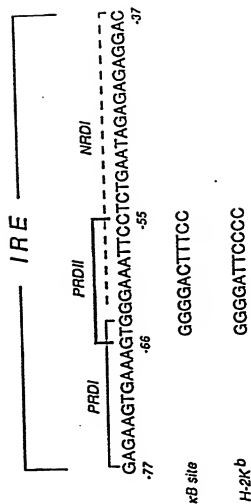


Figure 39

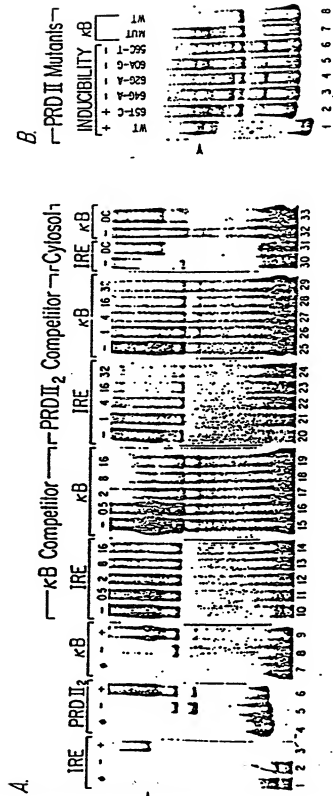
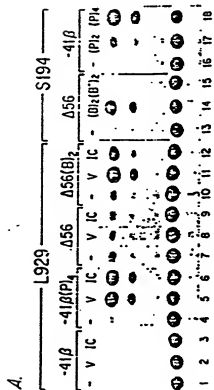
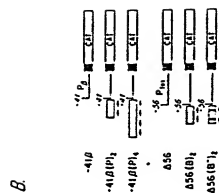


Figure 40



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[illegible]

FIGURE 43